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A.D. 1863, *6th MARCH.* N<sup>o</sup> 639.

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S P E C I F I C A T I O N

OF

DENNIS WILLIAM RANSOM.

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FIXING ARTIFICIAL TEETH.

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LONDON:

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1863.







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A.D. 1863, 6th MARCH. N° 639.

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### Fixing Artificial Teeth.

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LETTERS PATENT to Dennis William Ransom, of 24, Pembroke Place, Liverpool, in the County of Lancaster, for the Invention of "IMPROVEMENTS IN FIXING ARTIFICIAL TEETH."

Sealed the 21st August 1863, and dated the 6th March 1863.

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PROVISIONAL SPECIFICATION left by the said Dennis William Ransom at the Office of the Commissioners of Patents, with his Petition, on the 6th March 1863.

I, DENNIS WILLIAM RANSOM, of 24, Pembroke Place, Liverpool, in the  
5 County of Lancaster, do hereby declare the nature of the Invention for  
"IMPROVEMENTS IN FIXING ARTIFICIAL TEETH," to be as follows :—

This Invention has for its object improvements in fixing artificial teeth,  
and is applicable when fixing teeth in vulcanite or like moulded bases.  
Artificial teeth have before been made with metal pins, which have usually  
10 been bent in opposite directions, in order that when the base of vulcanite  
or other similarly formed base has been constructed and rendered hard, the  
teeth may be held securely to the base. This mode of applying pins has not,  
however, been free from objection.

Now according to my improvement I form the pins, or it may be a single  
15 pin, with a screw thread or threads thereon, or with notches; if two or more  
pins are applied to a tooth, they may be arranged parallel to each other, but  
I prefer that they should incline away from each other.

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*Ransom's Improvements in Fixing Artificial Teeth.*

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**SPECIFICATION** in pursuance of the conditions of the Letters Patent, filed by the said Dennis William Ransom in the Great Seal Patent Office on the 4th September 1863.

**TO ALL TO WHOM THESE PRESENTS SHALL COME,** I, DENNIS WILLIAM RANSOM, of 24, Pembroke Place, Liverpool, in the County of Lancaster, send greeting. 5

**WHEREAS** Her most Excellent Majesty Queen Victoria, by Her Letters Patent, bearing date the Sixth day of March, in the year of our Lord One thousand eight hundred and sixty-three, in the twenty-sixth year of Her reign, did, for Herself, Her heirs and successors, give and grant unto me, the said 10 Dennis William Ransom, Her special licence that I, the said Dennis William Ransom, my executors, administrators, and assigns, or such others as I, the said Dennis William Ransom, my executors, administrators, and assigns, should at any time agree with, and no others, from time to time and at all times thereafter during the term therein expressed, should and lawfully 15 might make, use, exercise, and vend, within the United Kingdom of Great Britain and Ireland, the Channel Islands, and Isle of Man, an Invention for “IMPROVEMENTS IN FIXING ARTIFICIAL TEETH,” upon the condition (amongst others) that I, the said Dennis William Ransom, my executors or administrators, by an instrument in writing under my, or their, or one of their hands 20 and seals, should particularly describe and ascertain the nature of the said Invention, and in what manner the same was to be performed, and cause the same to be filed in the Great Seal Patent Office within six calendar months next and immediately after the date of the said Letters Patent.

**NOW KNOW YE,** that I, the said Dennis William Ransom, do hereby 25 declare the nature of the said Invention, and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement thereof, that is to say:—

This Invention has for its object improvements in fixing artificial teeth, and is applicable when fixing teeth in vulcanite or like moulded bases. 30 Artificial teeth have before been made with metal pins, which have usually been bent in opposite directions, in order that when the base of vulcanite or other similarly formed base has been constructed and rendered hard, the teeth may be held securely to the base. This mode of applying pins has not, however, been free from objection. 35

Now, according to my improvement I form the pins, or it may be a single pin, with a screw thread or threads thereon, or with notches; if two or more

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*Ransom's Improvements in Fixing Artificial Teeth.*

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pins are applied to a tooth, they may be arranged parallel to each other, but I prefer that they should incline away from each other.

Figure 1 of the Drawings hereunto annexed shows a side view of an artificial tooth provided with two metal pins having screw threads cut upon them according to my Invention, the two pins are in the tooth shown in this Figure placed one below the other. In the tooth shown at Figures 2 and 3, the two screw pins are placed side by side, and the pins are inclined from each other, as is preferred. In place of two pins being employed, each tooth may be provided with a single screwed pin only, as is shown at the transverse section, Figure 4. The pins are in each of the Figures shown to have a screw thread cut upon them, but the pins may if preferred have notches cut upon them. The heads of the pins are shown to be imbedded in the teeth as is the case with the pins heretofore used.

In witness whereof, I, the said Dennis William Ransom, have hereunto set my hand and seal, this Twenty-fifth day of August, in the year of our Lord One thousand eight hundred and sixty-three.

DENNIS WILLIAM RANSOM. (L.S.)

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LONDON :

Printed by GEORGE EDWARD EYRE and WILLIAM SPOTTISWOODE,  
Printers to the Queen's most Excellent Majesty. 1863.





A.D.1863. MARCH 6. N<sup>o</sup> 639.  
RANSOM'S SPECIFICATION.

(1 SHEET)

FIG. 2.

*Side View.*



FIG. 3.

*Plan.*



FIG. 1.

*Side View.*



FIG. 4.

*Transverse Section.*



*The filed drawing is partly colored.*

Drawn on Stone by Malby & Sons.

